

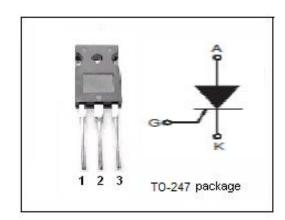
isc Thyristors 70TPS12

### **DESCRIPTION**

- With TO-3PN packaging
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### **APPLICATIONS**

- Solid state relays; heating and cooking appliances
- Switching applications



## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER			UNIT
$V_{DRM}$	Repetitive peak off-state voltage			V
V <sub>RRM</sub>	Repetitive peak reverse voltage	1200	V	
I <sub>T(AV)</sub>	Average on-state current @Tc=82℃			Α
I <sub>TSM</sub>	Surge non-repetitive on-state current	60HZ	1200	Α
P <sub>G(AV)</sub>	Average gate power dissipation ( over any 20 ms period )			W
T <sub>j</sub>	Operating junction temperature			$^{\circ}$ C
T <sub>stg</sub>	Storage temperature			${\mathbb C}$



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### **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated;	Tj=25℃		1.0	A
$I_{DRM}$	Repetitive peak off-state current	V <sub>D</sub> =V <sub>DRM</sub> Rated;	Tj=125℃		15	mA
$V_{TM}$	On-state voltage	I <sub>T</sub> =100A			1.5	V
I <sub>GT</sub>	Gate-trigger current	V <sub>D</sub> =6V			100	mA
$V_{GT}$	Gate-trigger voltage	V <sub>D</sub> =6V			1.5	V
Rth (j-c)	Junction to case				0.27	°C/W



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